Investigations in the Field of Lactones and Lactanes. 8. Report . Preparation of Polyvinylpyrrolidone with Protracted Action.

62-11-24/29

solution has higher advantages than such"in a block": 1) This process takes place at relatively lower temperature, 2) the product output becomes higher, 3) the polymeride developing is colourless and has no odour. In the physiological experiments at the 1. Moscow Institute for Medicine (reference 3) it was ascertained that the samples with a relative viscosity of a 3% aqueous solution of 3.7 to 4.0 are the most effective as "prolongator". The best sample showed a relative viscosity of 3,74, an osmotic pressure of 270 mm water column and an average molar weigth of~50 coo. There are 1 table, 3 references, 1 of which is

ASSOCIATION: Institute for Crganic Chemistry imeni N.D. Zelinskiy of the AN USSR (Institut organicheskoy khimii im.N. D. Zelinskogo Akademii

SUBMITTED:

June 21, 1957

AVAILABLE:

Library of Congress.

Card 2/2

ZELENOKAYA, M.G.

AUTHORS:

Shostakovsdy, K.F., Sidel'kovskaya, F.F.,

62-12-5/20

Zelenskaya, K.G.

TITLE:

Investigations Carried out in the Fields of Lactones and Lactoms (Issledovaniye v oblasti laktonov i laktamov). Information 9. The Synthesis of the Vinyllactams and Some of Their Properties (Soobshcheniye 9. Sintez vinillaktamov i ikh nekotoryye svoystva).

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1957, Nr 12, pp. 1457-1464 (USSR)

ABSTRACT:

In publications dealing with chemical problems much attention has recently been paid to the synthesis and polymerization of nitrogen-containing vinyl compounds. Among these methods, there is the reaction of direct vinylization suggested by Favorskiy and Shostakovskiy, which was carried out with alcohols and phenols. Further working out of this reaction made it possible to synthesize a number of valuable preparations. The authors gave a report about the vinylization of lactams by using pyrrolidone, piperidone and capro-lactam as examples. The catalyzers of vinylization are alkaline salts of lactams. It was shown that the most simple method of preparing the salts is

Card 1/2

the direct interaction between lactams and alkaline metals. It was

Investigations Carried out in the Fields of Lactones and Lactams. Information 9. The Synthesis of the Vinyllactams and Some of Their Properties

62-12-5/20

further shown that vinylperidone as well as other vinyl lactams must be hydrolyzed in an acid medium. Optimum conditions of hydrolysis were found. The polymerization of vinyl lactams was carried out under the influence of dinitryl of azoisc-butyric acid as well as under the influence of $\rm H_2O_2$ in an aqueous solution. The authors then describe a simultaneous polymerization of the vinyl peridone with the methyl ester of methacrylic acid. There are 7 tables, and 17 references, 11 of which are Slavio.

MINITAL COLERA

Institute for Organic Chemistry AN USSR imeni N.D.Zelinskiy (Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR).

SUBMITTED:

July 3, 1956

AVAILABLE:

Library of Congress

Card 2/2

1. Lactones-Vinylization 2. Lactams-Vinylization 3. Alcohols

4. Phenols 5. Pyrrolidone

SIDEL'KOVSKAYA, F.P.; ZELIMSKAYA, M.G.; MINAYMA, I.N.; SHOSTAKOVSKIY, M.F.

Lactones and lactams. Report No.24: Reactivity of β -pyrrolidony-lethyl esters of acrylic acids. Izv. AN SSSR Ser. khim. no.11: 2061-2063 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964230007-9"

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; AVETISYAN, A.A.; ZELENSKAYA, M.G.; LOPATIN, B.V.

N-vinylthiopyrolidone. Dokl. AN SSSR 153 no.5:1089-1092 D '63. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, M.F.; ZELENSKAYA, M.G.; SIDEL'KOVSKAYA, F.P.; LOPATIN, B.V.

Lactones and lactams. Report No.22: M-acryloyl lactams.
Izv.AN SSSR.Otd.khim.nauk no.3:505-510 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Lactams)

2006年1月10日		÷:
	SIDEL'KOVSKAYA, F.P.;	ZELENSKAYA, M.G.; SHOSTAKOVSKIY, M.F.
		thacryloylpyrrolidinones. Zhur.ob.khim. 31
		anicheskoy khimii imeni N.D.Zelinskogo AN S9SR. (Acrylic acid) (Methacrylic acid)
		(Pyrrolidinone)

SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.G.; SHOSTAKOVSKIY, M.F.; LOPATIN, B.V.

New esters of acrylic and methacrylic acids. Vysokom.soed. //
no.3:389-392 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo.

(Acrylic acid) (Methacrylic acid)

34991 \$/190/62/004/003/011/023 B110,B144

15.8070

AUTHORS:

Sidel'kovskaya, F. P., Zelenskaya, H. G., Shostakovskiy, M. F.,

Lopatin, B. V.

TITLE:

New acrylic and methacrylic acid esters

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 389-392

TEXT: A synthesis of α,β -unsaturated esters with lactam rings

 $CH_{1} = CHCOCH_{2}CH_{2}N (CH_{1})_{3}CO; CH_{2} = C - COCH_{2}CH_{2}N (CH_{1})_{3}CO$ $CH_{3} = CH_{3} - (II)$

was developed to produce new monomers and polymers and to study the effect of the lactam ring on the acrylic ester double bond and on polymer properties. The lactam ring is introduced into saturated esters by the action of N-(β -hydroxyethyl)-pyrrolidone (P) on fatty acids or their acid chlorides. Esterification of acrylic and methacrylic acid (AA, MA) with P is more difficult than that of saturated acids. AA and MA chlorides and P form esters with <55 % yields (optimum conditions; 1.5 hrs, 70°C, CHCl₃

Card 1/2

5/190/62/004/003/011/023 B110/B144

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New acrylic and methacrylic acid esters

and CCl₄ as solvents, soda (or NH₃) to bind HCl) and sometimes additional small amounts of high-boiling products of unknown structure. The esters I and II are mobile liquids soluble in water, ethanol, methanol, acetone, and benzene, saponifiable in alkali, insoluble in ether and petroleum ether. They polymerize at 40°C, but withstand long-time storage at room temperature. IR spectra taken with an MKC-14 (IKS-14) spectrophotometer (NaCl prism) showed two carbonyl groups and one =CH₂ double bond. Solid polymers

insoluble in organic substances and water, are obtained with azoisobutyric acid dinitrile. With benzoyl peroxide, only polymers from I insoluble in organic substances and water, could be produced within 12 hrs at 80-82°C. There are 1 figure, 1 table, and 4 references: 1 Soviet and 3 non-Soviet. The most important reference to English-language publications reads as follows: C. N. Stempel et al. J. Amer. Chem. Soc., 72, 2299. 1950.

ASSOCIATION:

Institut organicheskoy khimii AN SSSR im. N. D. Zelinskogo

(Institute of Organic Chemistry AS USSR imeni N. D. Zelinskiy)

SUBMITTED:

February 23, 1961

Card 2/2

31192 8/079/61/031/012/011/011 D204/D301

5.3610

TITLE:

Sidel'kovskaya, F. P., Zelenskaya, M. G., and Shosta-

AUTHORS: kovskiy, M. F.

The preparation of acrylone - and methacrylone pyrro-

lidones

Zhurnal obshchey khimii, v. 31, no. 12, 1961, 4060 -PERIODICAL:

4061

TEXT: The work was carried out in view of the recent interest in the amides of acrylic and methacrylic acids as potential starting materials for the synthesis of new polymers. CH₂ = CH.CON(CH₂)₃CO

(I) and $CH_2 = C.CON(CH_2)_3CO$ (II) were prepared in 20 and 40% yields respectively by the action of the appropriate acid chlorides on Na pyrrolidone at -100 → -150C. Propyl gallate was used as an inhibitor and structures of the products were confirmed by infrared spectro-accopy. Acrylone pyrrolidone (I) polymerizes very readily, forming a

Card 1/2

31192 S/079/61/031/012/011/011 D204/D301

The preparation of acrylone ...

hard polymer, insoluble in water or organic solvents, during its preparation and distillation. Monomer (II) polymerizes in 20% yield on heating for 30 hours at 60°C, in the presence of 5% azo-iso-butyric dinitrile, to form a white powder (m.p.~270°C) soluble in dimethyl formamide. Properties of the above two monomers and the preparation of acrylone and methycrylone lactrams based on piperidone and caprolactam are now being investigated.

ASSOCIATION:

Institut organicheskoy khimii imeni N. D. Zelinskogo, Akademii nauk SSSR (Institute of Organic Chemistry im.

N. D. Zelinskiy, Academy of Sciences USSR)

SUBMITTED:

July 10, 1961

Card 2/2

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.G.; SHKURINA, T.W.,
OGIBINA, T.Ya.

Lactones and lactams. Report No.18; Reaction of vinyl lactams
with hydrogen chloride and alcohols. Izv.AN SSSR Otd.khim.nauk
no.3:482-487 Mr '61. (MIRA 14:4)

1. Institut organicheskoy khimili imeni N.D.Zelinskogo AN SSSR.
(Lactams)

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.G.

Lactones and lactams. Reprot No.19: Synthesis of ethers and esters of N.-(\(\beta\)-hydroxyethyl)pyrrolidinone. Izv.AN SSR.Otd.khim.nauk no.5: 910-913 My '61.

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Pyrrolidinone)

SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.C.; SHOSTAKOVSKIY, M.F.

Lactones and lactams. Report No. 17: Dienophilic activity of Newinyl lactams and of the vinyl ether of N-(6-hydroxysthyl) pyrrolidone. Izv. AN SSSR. Otd. khim.nauk no. 1:128-135 Ja '61. (MITA 14:2)

1. Institut organicheskoy khimii im, N.D. Zelinskogo AN SSSR. (Lactams) (Ether) (Pyrrolidinone)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964230007-9

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Shorygin, P. P., Shkurin Sidel'Housiays, P. P., 2 Sidel'Housiays, P. P., 2 Sidel'Housiays, P. P., 2 Sidel'Housiays, P. P., 2 Spectroscopic Investigs Andillides and Influence of the Interaction of Tangle Donal of Supplier Dolads, Value of Supplier Dolads, Value of Supplier Dolads, Value of Cardo Donal interaction of the Cardo Donal of Interaction of the Cardo Donal of Interaction of Intera	-		77082 30V/62-	a, T. N., Shoatak	ion of M-Vinyllad	SSSR. Obdeleniye 8-2212 (USSR)	Eroups was invested Company of Strong Company of Compan	lon, by constant le bonds, as we le bonds. Raman nylpiperidone, vi branilide, aceta	s containing an N fone, N-butylpyrra etamide were take	lamp were used to	istic for Camber of the M	requency of the C as in molecules	inglipiperitions and state of the close to t	and that of the same bunds, This ands	ristic of winylla m molecules with an be explained b		allqlation of M	up. It can be as	tables; I figure:	in in	e of Organicator organication organication in the contraction of the c				
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AUTHORN AUTHOR			5.3610,5.3100	AUTHORS:	TITE:	PERIODICAL:	ABSTRACT:		Card 1/3							- Card 2/:					LSSCI	SUBMIT	Card 3	<u>-</u>	

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964230007-9

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	5 (3) AUTHORS:	ë.	PERICOICE		Z. Z.		, , , , , , , , , , , , , , , , , , ,		18300232	ZWEUS				
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SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; ZELDHSKAYA, M.G.

Investigations of lactones and lactame. Report Mo.13:Alkoxyethyl-idenepyrrolidones. Isv.AN SSSR.Otd.khim.nauk no.3:516-520 Mr '59. (MIRA 12:5)

1. Institut organicheskey khimii im. N.D.Zelinskogo AN SSSR. (Pyrrolidinone)

5(3)

AUTHORS:

Shostakovskiy, M. F., Sidel'kovskaya, SOV/62-59-4-29/42

F. P., Zelenskaya, M. G.

TITLE:

Reaction of Propylene Oxide With α -Pyrrolidone (Reaktsiya okisi

propilena s α-pirrolidonom)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 4, pp 738-740 (USSR)

ABSTRACT:

This is a brief report on the investigation of the reaction of a-pyrrolidone with propylone exide. In this case the exide ring opens in a way so that a secondary alcohol is formed:

+ hhco(ch₂)₃ - ch₃ch(oh)ch₂hco(ch₂)₃

The structure of the N-(β -oxypropyl) α -pyrrolidone obtained was proved by the synthesis of γ-butyrolactone and aminoisopropanol. The aminoisopropanol required was obtained from ammonia and propylene oxide (Ref 3). Upon interaction of N-(β-oxypropyl) &-pyrrolidone with thionyl chloride the

hydroxyl group was substituted by chlorine and

N-(β-chloropropyl) & pyrrolidone obtained. Upon heating with aqueous alkali this chloride is hydrolymed (Table),

Card 1/2

Reaction of Propylene Oxide With a-Pyrrolidone

507/62-59-4-29/42

although, more slowly than the N-(chloromethyl) & pyrrolidone obtained earlier (Ref 4) which saponifies quantitatively at room temperature even in the absence of alkali. Upon heating of N-(β-chloropropyl) &pyrrolidone with caustic potash in benzene solution, HC1 was separated and N-(propenyl) (-pyrrolidone formed. The position of the double bond was determined by spectroscopy. This investigation was carried out by T. N. Shkurina. There are 1 table and 6 references, 3 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogc Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

July 24, 1958

Card 2/2

Sidel'kovskaya, F. P., Zelenskaya, M. G., SOV/62-59-5-21/40 5(3) AUTHORS: Shostakovskiy, M. F. Investigation in the Field of Lactones and Lactames (Issledovaniye v oblasti laktonov i laktamov). TITLE: Report 16. N-Methylol-lactames (Soobshcheniye 16. N-Metilollaktamy) Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, PERIODICAL: 1959, Nr 5, pp 901-903 (USSR) In this paper the synthesis of N-methylol-lactames of the following structure was investigated: Methylol pyrrolidone (I) ABSTRACT: (CH2) GONCH2OH and N-methylol caprolactame (II) (CH2) CONCH2OH, and some of their properties were determined. The authors of the present paper showed in a previous one that in the case of an action of a 30 % formaldehyde solution upon pyrrolidone and caprolactame the following is produced in an alkali medium with a yield of 70 - 90 % (I) and (II): \sqsubseteq (CH₂)_n CONH + CH₂0 $\xrightarrow{\text{OH}^-}$ \sqsubseteq (CH₂)_n CONCH₂OH (Ref 3). Card 1/2

Investigation in the Field of Lactones and Lactames . SOV/62-59-5-21/40 Report 16. N-Methylol-lactames

This scheme is to be proved. For this purpose, the reaction of these compounds with thionylchloride

 $OHCH_2N(CH_2)_nCO + SOC1_2 \longrightarrow C1CH_2NCO(CH_2)_n^2 + HC1 + SO_2$

was investigated, and the compounds N-chloromethyl pyrrolidine and N-chloromethyl caprolactame were obtained with a yield of ~80 %. The chlorine content of these compounds was determined by titration according to the method developed by Volhardt (table), and it was shown that the chlorine atom in these compounds is easily saponified. Both synthesis and investigation are described separately in the experimental. There are 1 table and 6 references, 2 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences. USSR)

SUBMITTED: Card 2/2 July 26, 1957

SIDEL'KOVSKATA, F.P.; ZELEHSKATA, M.G.; SHOSTAKOVSKIY, M.F.

Lactones and lactams. Report No.12; Vinyl ether of
N-(/3-oxyethyl)pyrrolidinone. AN SSSR. Otd. khim. nauk no.9:1111-1118
S '58. (MIRA 11:10)

1.Institut organicheskoy khimii imeni N.D. Zelinskoge AN SSSR.

(Pyrrolidinone)

5(3)

AUTHORS:

Shostakovskiy, M. F., Sidel kovskaya, SOV/62-59-3-20/37

F. P., Zelenskaya, H. G.

TITLE:

Investigation in the Field of Lactones and Lactams (Issledovaniye v oblasti laktonov i laktamov). Communication 13. Alkoxyethylidene-pyrrolidones (Soobshcheniye 13. Alkoksi-

etilidenpirrolideny)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 3, pp 516-520 (USSR)

ABSTRACT:

In order to obtain vinylpyrrolidone, in the present paper alkoxyethylidene-pyrrolidones were synthesized and their thermal decomposition investigated. Several methods of synthesis were applied: The interaction of vinylalkylethers with pyrrolidone, the reaction of vinylpyrrolidone with alcohol and the reaction of the α-chloroethylalkylether with pyrrolidone. The best results were obtained in the reaction of pyrrolidone with a-chloroethylalkylether. The character and the yield of the resulting products chiefly depend on the reaction conditions, especially on temperature and initial components (Table). A lower temperature and excess pyrrolidene favor

Card 1/3

the formation of pyrrolidone hydrochloride (Experiments 1,3,4).

Investigation in the Field of Lactones and Lactams. SOV/62-59-3-20/37 Communication 13. Alkoxyethylidene-pyrrolidenes

An increase in temperature up to 850 provides a good yield of ethylidene-bis-N-N'-pyrrolidone (Experiments 6,10). Experiment 2 shows optimum conditions for the formation of butoxyethylidene pyrrolidone and experiment 9 for the formation of isopropoxyethylidene pyrrolidone. The most comfortable method of synthesis of alkoxyethylidene pyrrolidones as well as of alkoxyethylidene caprolactams is the interaction of u-chloroethylalkylethers with lactams. This reaction, however, exhibits a number of peculiar features for pyrrolidone. The yield of alkoxyethylidene pyrrolidones, for instance, is small, further, in addition to them ethylidene-bis-N-N'-pyrrolidone is always formed. Certain differences may be observed also on the thermal decomposition of these two compounds. On thermal decomposition of alkoxyethylidene caprolactams vinylcaprolactam is obtained in high yield (70-80 %). On the other hand it is not always possible to obtain vinylpyrrolidone on decomposition of alkoxyethylidene pyrrolidones. On decomposition of butoxyethylidene pyrrolidone vinylpyrrolidone in a ~40 % yield and butanol were obtained. On decomposition of iscpropoxyethylidenepyrrolidone isopropyl alcohol, pyrrolidone, and ethylidene-

Card 2/3

sov/62-59-3-20/37 Investigation in the Field of Lactones and Lactans. Communication 13. Alkoxyethylidene-pyrrolidones

-bis-N-N'-pyrrolidone were separated. The thermal decomposition of ethylidene-bis-N-N'-pyrrolidone takes place at considerably higher temperature than the decomposition of alkoxyethylidene lactams. As result of this decomposition pyrrolidone and a resinous residue were separated. There are

1 table and 8 references, 5 of which are Soviet.

Institut organicheskoy khimii im. M. D. Zelinskogo Akademii ASSOCIATION:

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelin-

skiy of the Academy of Sciences, USSR)

June 21, 1957 SUBMITTED:

card 3/3

Sidel'kovskaya, F. P., Zelenskaya, M. G., SOV/62-58-9-15/26 AUTHORS: Shostakovskiy, M. F. Lactones and Lactams (Issledovaniye Studies in the Field of v oblasti laktonov i laktamov) Communication 12: Vinyl TITLE: Ether of N-(β-Oxyethyl)Pyrrolidone (Soobshcheniye 12. Vinilovyy efir N-(β-oksietil)pirrolidona) Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 9, pp 1111 - 1118 (USSR) PERIODICAL: During the last year various nitrogen-containing vinyl compounds with remarkable properties were synthesized. ABSTRACT: The authors of this paper attempted to prepare the vinyl ether of N-(β -oxyethyl) lactam in order to study its properties and in order to compare the properties of the vinyl ethers of N-substituted β -ethanolamine with those of the vinyl lactams. The vinyl ether of N-(β -oxyethyl) pyrrolidone was synthesized. In addition the authors investigated the reaction between δ -valerolactone and ethanolamine at 2000 C. Under the reaction conditions the 6-membered ring apparently opens. Using the example Card 1/3

Studies in the Field of Lactones and Lactams. SOV/62-58-9-15/26 Communication 12: Vinyl Ether of N-(β -Oxyethyl)Pyrrolidone

of the reaction of the compound with butanol it was shown that the vinyl ether of N-(\$-oxyethyl)pyrrolidone combines with alcohols. Di-N-(ethylpyrrolidonyl)acetal and butyl-N-(ethylpyrrolidonyl) acetal were isolated. The thermal decomposition of butyl-N-(ethylpyrrolidonyl) acetal was investigated. It was shown that the vinyl ether of N-(β-oxyethyl)pyrrolidone combines with hydrogen chloride. The product formed is unstable and upon standing is transformed into the chlorohydrate of N-(β-oxyethyl)pyrrolidone. It was found that the vinyl ether of N-(β-oxyethyl)pyrrolidone polymerizes under the influence of the dinitrile of isobutyric acid vapor and hydrogen peroxide. It tends to polymerize thermally, but in the presence of 0,2% benzoyl peroxide (at 60° C) it does not polymerize. There are 2 tables and 9 references, 6 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D.Zelinskiy, AS USSR)

Card 2/3

SHAPIRO, S.Ye.; KONSTANTINOV, A.A.; ZELENSKAYA, M.I.; CHAPOVSKAYA, L.G.; STAROSTINA, I.S.

Clinical and immunobiochemical parallels in typhoid-paratyphoid patients. Report No. 1: Effect of the severity of the course, the patients of pathogen and the age factor on the protein composition of type of pathogen and the age factor on the protein composition of the blood serum of typhoid-paratyphoid patients. Trudy Khab.med. (MIRA 15:10) inst. no.20:38-42 '60.

1. Iz kliniki infektsionnykh bolezney (zav. dotsent S.Ye.Shapiro) (Khabarovskogo meditsinskogo instituta i biokhimicheskoy laboratorii (zav. dotsent A.A. Konstantinov) Khabarovskogo naucnno-issledovatel'-(zav. dotsent A.A. Konstantinov) Khabarovskogo naucnno-issledovatel'-skogo instituta epidemiologii i giglyeny (dir. A.M. Krupnikova). (BLOOD PROTEINS) (TYPHOID FEVER) (PARATYPHOID FEVER)

LENKINA, M.S.; SHAPIRO, S.Ye.; ZELENSKAYA, M.I.; KULUSHEVA, N.K.

Characteristics of the isolation of bacteriophage in typhoid and paratyphoid patients in a light clinical course of the disease and treatment typhoid patients in a light clinical course of the no.12:115-116 D 163. with antibiotics. Zhur.mikrobiol.,epid.i immun. 40 no.12:115-116 D 163. (MIRA 17:12)

1. Iz Khabarovskogo instituta epidemiologii i mikrobiologii i kliniki infektsionnykh bolezney Khabarovskogo meditsinskogo instituta.

KONSTANTINOV, A.A.; SHAPIRO, S.Ye.; STAROSTINA, I.S.; CHAPOVSKAYA, L.G.;

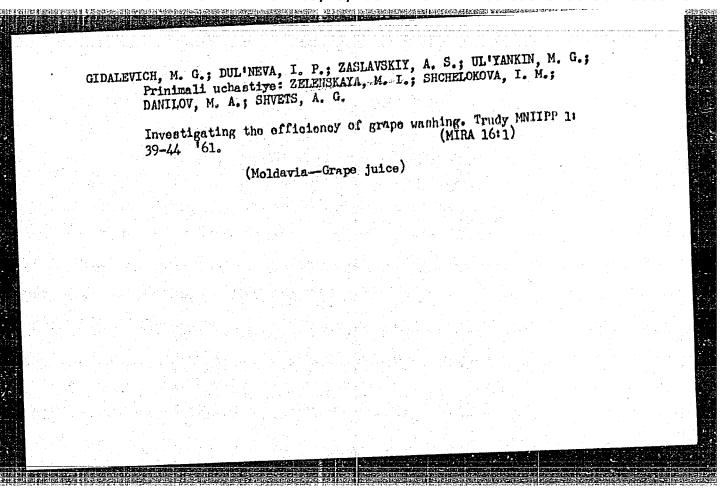
ZELENSKAYA, M.I.

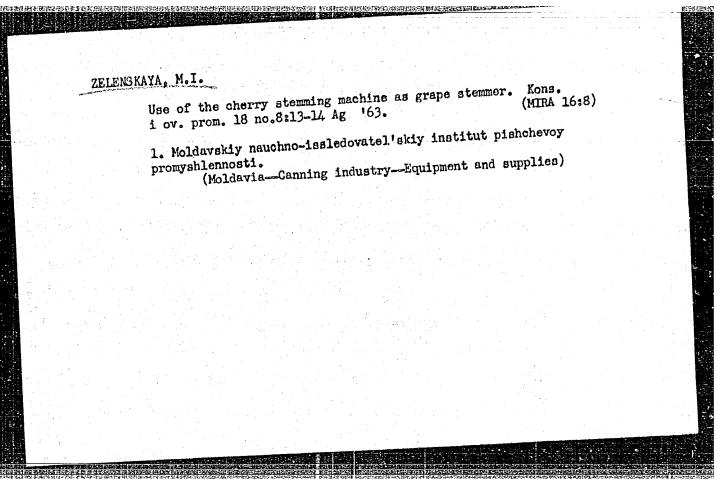
Clinical and immunobiochemical parallels in typhoid-paratyphoid patients. Report No. 2: Effect of antibiotic therapy on the protein composition of the blood serum and Midal's reaction; the interrelation between Widal's reaction and the individual blood serum protein fractions. Trudy Khab.med.inst. no.20:43-48'60.

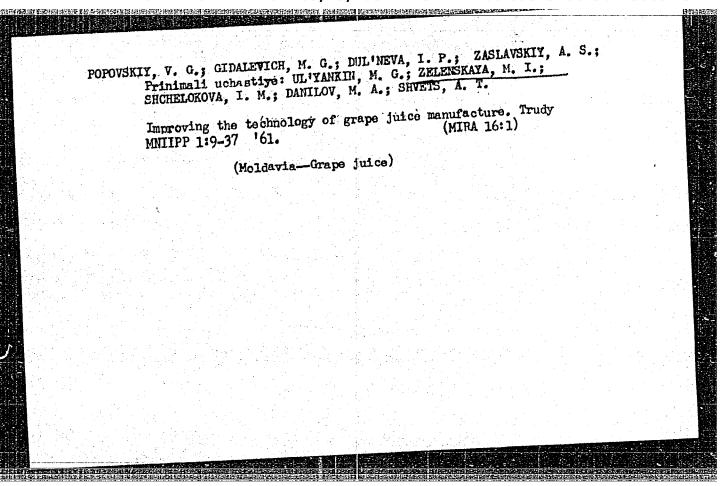
(MIRA 15:10)

1. Iz kliniki infektsionnykh bolezney (zav. dotsent S.Ye.Shapiro) Khabarovskogo meditsinskogo instituta i biokhimicheskoy laboratorii (zav. dotsent A.A.Konstantinov) Khabarovskogo nauchno-issledovatel'-skogo instituta epidemiologii i giglyeny (dir. A.M.Krupnikova).

(BLOOD PROTEINS) (ANTIBIOTICS) (TYPHOID FEVER)







ZELENSKAYA, M.I.	A.
SHAPIRO, S.Ye.; KALMYKOVA, A.D.; KLIMENKO, O.I.; ZELENSKAYA, M.I.; TIMOFEYEVA A.A.; GARBUZOV, M.M.	
Incidence of tularemia in Khabarovak region. Zhur.mikrobiol.epid. (MIRA 11:4) immun. 29 no.2:21-24 F 158.	
 Iz kliniki infektsionnykh bolezney Khabarovskogo meditsinskogo instituta i Khabarovskoy protivochumnoy stantsii. (TULAREMIA, epidemiology. 	
in Russia (Rus)	

USSR / Microbiology. Microbes Pathogenic to Man and Animals. Tularemia Microbe.

F

Abs Jour

: Ref. Zhur - Biol., No. 21, 1958, No. 95187

Author

: Shapiro, S. Ye.; Kalmykova, A.D.; Klimenko, O. I.; Zelenskaya, M.I.; Timofeyeva, A.A.;

Garbuzov, M. M.

Inst

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Title

On Tularemic Diseases in the Region of

Khabarovsk.

Orig Pub

: Zh. mikrobiol., epidemiol. i immunobiol.,

1958, No. 2, 21-24

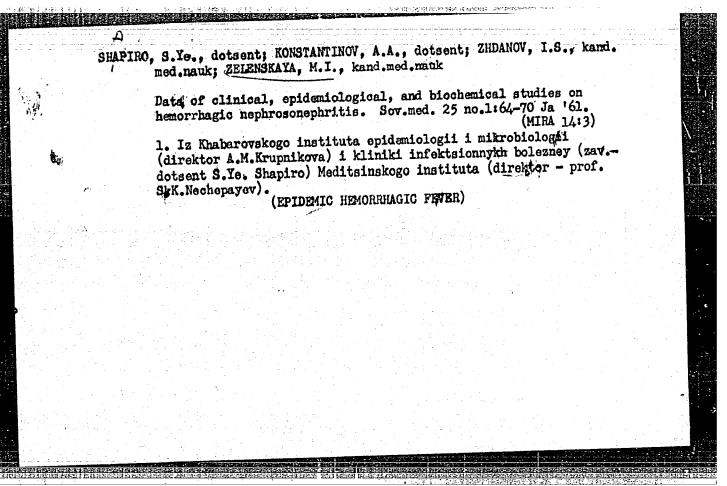
Abstract

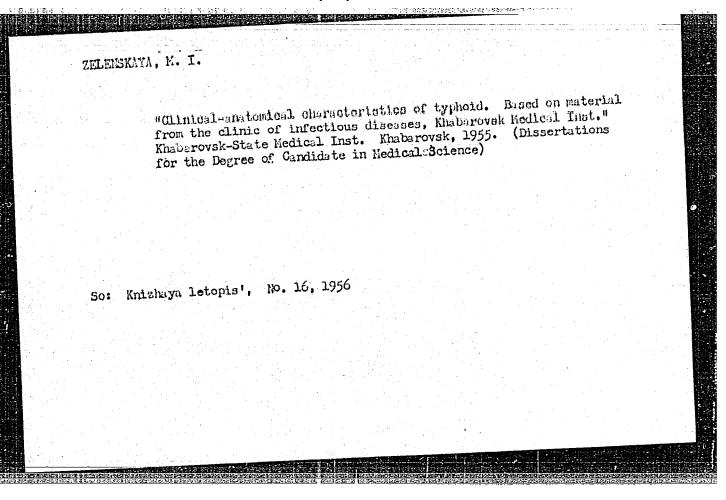
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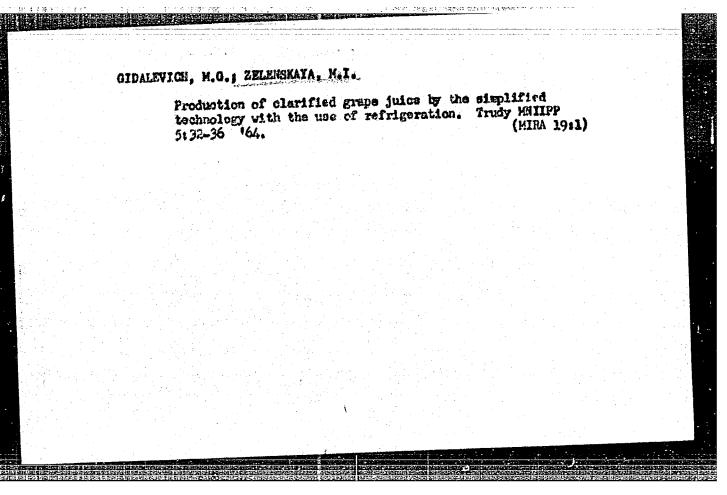
Card 1/1

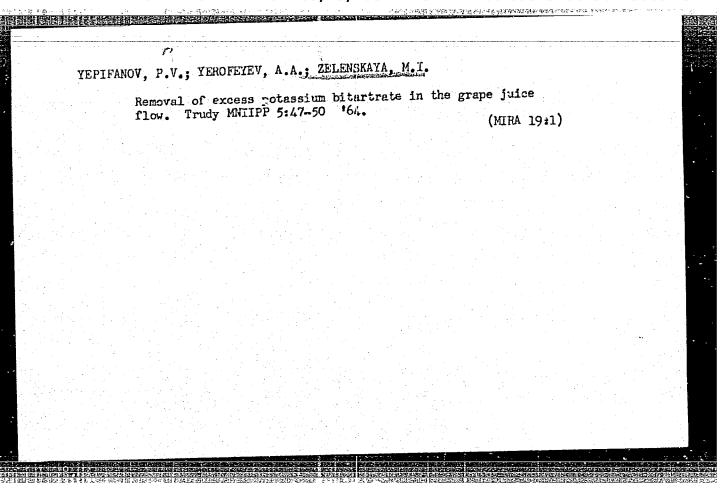
"On the epidemiological characteristic of hermorrhadic fever with a rinal syndrome in Khabarovsk and its autskirts." p. 126.

Desvatove soveshchanive no parazitilogicaeskim probleman 1 prirodnocharovym boleznyam. 22-29 Oktyabrya 1959 g. (Terth Conference on Pressitatorical Problems and Diseases with Natural Foot 22-29 Oktober 1959), Moscow-Leningrad, 1959, Reademy of Medical Sciences W.TM and Academy of Sciences 1958, No. 1 250-no.









LADYZHANSKIY, I.A.; POPOVSKIY, V.G.; GASYUK, G.N.; DUL'NEVA, I.P.;
ZELENSKAYA, M.I.

Economic efficiency of using the simplified technology in grape juice production. Trudy MNIIPP 5:91-96 '64.

(MIRA 19:1)

L 27618-66 ENT(1)/T JK

ACC NR: AP6018418

SOURCE CODE: UR/0240/65/000/012/0090/0091

THE CHARLEST ECTEMENTS BEING THE THE WASHEST STREET,

AUTHOR: Shapiro, S. Ye.; Zelenskays, H. I.

26 B

ORG: Clinic of Infectious Diseases, Khabarovsk Hedical Institute (Klinika infektsion) nyld bolezney Khabarovskogo meditsinskogo instituta)

TITLE: Cases of botulism in the Khabarovsk region

SOURCE: Gigiyona i sanitariya, no. 12, 1965, 90-91

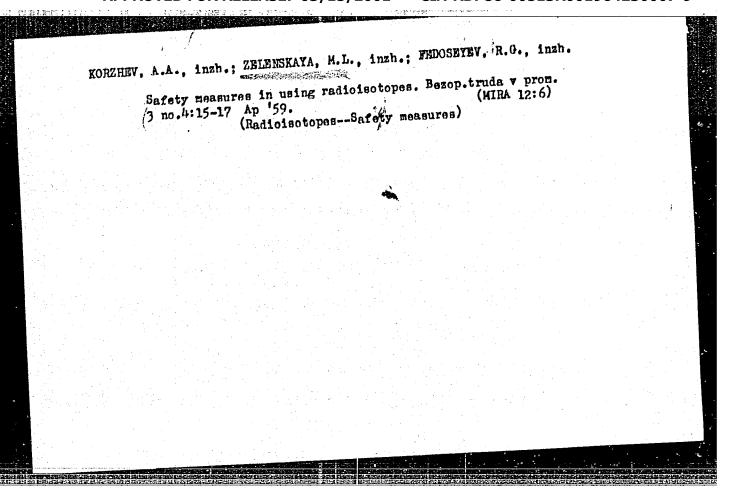
TOPIC TAGS: botulism, therapeutics, serum, epidemiology

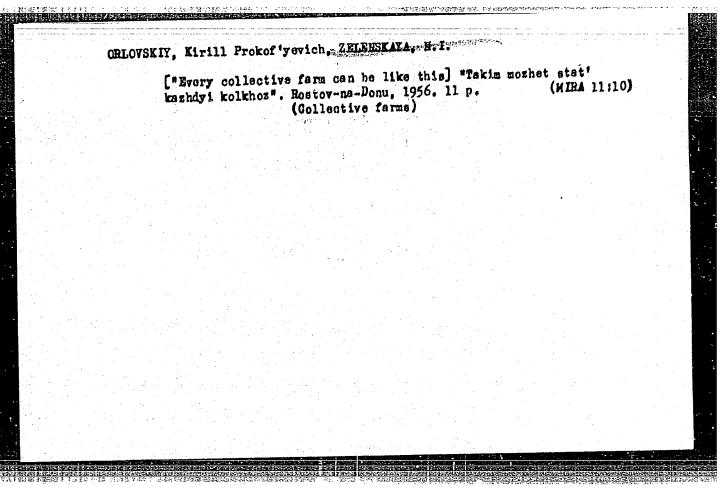
ARSTRACT: The author presents case histories of inhabitants of the Khabarovek region who contracted botulism following consumption of fish products infected with Cl. botulinum. The illness was in all cases traced to persons who fished for chum and pike for personal consumption as well as for market sale to others. These cases had either a lethal outcome or resulted in intestinal parceis, diplopia, accommodation paresis. Treatment consisted of the administration of antibotulin serum (type A and B) combined with transfusion of blood plasma, saline solutions, and other means of pathogenetic therapy. Bacteriological analysis of the remains of chum and pike confirmed the presence of Cl. botulinum. Thus, epidemiological observations indicate that the region of Khabarovsk adjoining the Amur River is unfavorable from the standpoint of botulism. The sources of this food poisoning were chum and pike, i.e. fish

Card 1/2

UDC: 616,981,553-036,24(571,62)

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ZELENSKAYA, N.O.; ERIGADIROY, N.G.; BLINOY, A.I., tekhnicheskiy redaktor.

[Origin of man; material to aid the dissemination of scientific information among the rural population] *rpiskhoshdenie cheloveks; *materialy v pomeshch' estestrenno-nauchnoi propagande sredi sel'skogo naseleniia. Rosto-na-Donu, 1956. 15 p. (MIRA 10:6)

1. Rostov on the Don, Gosudarstvennaya nauchnaya biblioteka. (Bibliography--Man--Origin)

ACCESSION NR: AP4042968

8/0048/64/028/007/1220/1228

AUTHOR: Zelenskaya, N.S.; Smirnov, Yu.F.

TITLE: Concerning some features of the quasielastic nucleon and deuteron knock-out reactions on 1d-2s shell nuclei Report, 14th Annual Conference on Nuclear Spectroscopy held in Tibilisi 14-21 Feb 19647

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.7, 1964, 1220-1228

TOPIC TAGS: nuclear reaction, proton reaction

ABSTRACT: In order to obtain information concerning direct knoc-out reactions of, ld-2s shell nuclei between 016 and Ca40, the cross sections for the following reactions were calculated: Mg²⁴(p,2p)Na²³, Si²⁸(p,2p)Al²⁷ and Mg²⁴(p,pd)Na²². The calculations were performed with the unified model in the momentum approximation with the use of plane waves. The reduced nucleon widths were taken from the work of S. Yoshida (Prog.Theoret.Phys.12,141,1954). The results are presented graphically and are discussed. As a function of incident proton energy, the cross section for the (p,2p) reaction shows a number of well separated maxima. These are due primarily to the difference between the longitudinal and transverse frequencies in these deform-

1/3

ACCESSION NR: AP4042968

ed nuclei, which also gives rise to the splitting of the giant dipole resonance. Pairing forces also contribute, however, and the effect is marked in Si28 as well as in $m Mg^{24}$. The cross section depends strongly on the angle between the two scattered protons, but the maxima are still clearly separated when the cross section is averaged over the angle. The proton momentum distribution is rather complex because of interference between oscillator states with different 1. The effective number of deuterons in ${
m Mg}^{24}$ was found to be approximately 0.5. This is considerably less than in p-shell nuclei. The (p,pd) cross section depends more strongly on the angle than does the (p,2p) cross section; this is due to the fact that the deuteron wave function is not a harmonic oscillator eigenfunction. As a function of the incident proton energy, the cross section shows a number of peaks which, however, are not so well separated as those of the (p,2p) cross section. The probabilities were calculated for the excitation of a number of odd parity states of 016 by the 017(p,pn)016 reaction. Not only are the probabilities for the excitation of the odd levels of the giant dipole resonance quite different than in the case of excitation by photon absorption, but many other odd states are strongly excited. It is noted that many states can be excited and investigated by means of direct knock-out reactions that t would be difficult to excite otherwise, and it is suggested in particular that

SCCIATION: Nauchno-issledovatel'skly institut yadernoy fiziki Moskovskogo	
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the Ass goo Mos	tion. "In conclusion, the authors consider it their pleasant duty to express their gratitude to V.G.Neudachin for discussing the work and for valuable advice." ASSOCIATION: Nauchno-issledovatel skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Scientific Research Institute of Nuclear Physics, Moscow State University) SUBMITTED: CO

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64. MGU (Moscow State Univ)	"The Stopping Absorption of m" Mesons in C12."
MGU (Moscow State Univ)	report submitted for All-Union Conf on Nuclear Spectroscopy, Toiliei, 14-22 Feb 64.
	MGU (Moscow State Univ)

8/056/61/041/006/040/054 B109/B102 Zelenskaya, N. S., Shirokov, Yu. M. Relativistic corrections to the magnetic moments of H and TITLE: He³ Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 41, PERIODICAL: no. 6(12), 1961, 1934-1937 TEXT: A general expression is derived for the relativistic corrections to the nuclear magnetic moments arising as a result of non-Galilean relativistic corrections to the Hamiltonian of nucleon-nucleon interaction. According to F. A. Zhivopistsev, A. I. Perelomov, and Yu. M. Shirokov (ZhETF, 36, 478, 1959), the non-Galilean correction to nucleon-nucleon interaction has the form Card 1/4

S/056/61/041/006/040/054

Relativistic corrections to the ... B109/B102 $H_{mn} = \frac{1}{8M^4} \left\{ -H_{mn}P^2 + i \left(P \frac{\partial H_{mn}}{\partial x} \right) \left(P \frac{\partial}{\partial p} \right) - \left(\sigma_m - \sigma_n \right) \left[P \frac{\partial H_{mn}}{\partial x} \right] - i \left(\sigma_m - \sigma_n \right) H_{mn} [P] + \left(2 \right),$ $+ i H_{mn} \left(\sigma_m - \sigma_n \right) [pP] - \left(P \frac{\partial H_{mn}}{\partial p} \right) (pP) + i P_i P_i \frac{\partial H_{mn}}{\partial x_i \partial p_i} \right\}$ $P = p_m + p_n, \quad p = \frac{1}{2} (p_m - p_n), \quad x = x_m - x_n.$ where H_{mn} denotes the interaction energy of the m-th and n-th nucleons. This operation of the non-Galilean relativistic correction to the nuclear meaning against a goment is obtained from (2) as $\Delta p = \frac{1}{10M^3} \left[2H_{mn} \left(e_m + e_n \right) \ln \left(r - R \right) P - \left(- P_n \right) \left(n \frac{\partial H_{mn}}{\partial r} \right) \right].$ $= - \left(e_{r1} + e_n \right) \left(\sigma_m - \sigma_n \right) \left[n \left((r - R) \frac{\partial H_{mn}}{\partial r} \right) - (r - R) \left(n \frac{\partial H_{mn}}{\partial r} \right) \right].$ $= - \left(e_{r1} + e_n \right) \left(\sigma_m - \sigma_n \right) \left[n \left((r - R) \frac{\partial H_{mn}}{\partial r} \right) - (r - R) \left(n \frac{\partial H_{mn}}{\partial r} \right) \right].$ $= - \left(e_{r1} + e_n \right) \left(\sigma_m - \sigma_n \right) \left[n \left((r - R) \frac{\partial H_{mn}}{\partial r} \right) - (r - R) \left(n \frac{\partial H_{mn}}{\partial r} \right) \right].$

8/056/61/041/006/040/05 B109/B102

Relativistic corrections to the .. (3) has been calculated for the 251/2 state of mirror nuclei by using the wave function of the harmonic oscillator and the expression Hmn - (W + MP + BP + XP P,) V(r) (V(r) - Gauss or Yukawa potential). The results are shown in a table. Conclusions: A) The relativistic non-Galilean correction exceeds considerably the correction of the spin-orbital interaction; B) the correction terms have the correct sign; the maximum value of 0.086 explains only 30% of the discrepancy between theoretical and experimental values. The difference is attributed to the effect of exchange mesons, which has been discussed by S. D. Drell and J. D. Walecka (Phys. Rev., 120, 1069, 1960). There are 1 table and 13 references: 4 Soviet and 9 non-Soviet. The four most recent references to English-language publications read as follows: L. D. Rearlstein, J. C. Teng, K. Wildermuth. Nucl. Phys., 18, 23, 1960; A. C. Butcher, J. M. Mc Namee. Proc. Phys. Soc., 74, 529, 1959; R. A. Ferrel, W. M. Visscher, Phys. Rev., 102, 450, 1956; J. M. Berger. Phys. Rev., 115, 223, 1959.

Card 3/4

31790 S/056/61/041/006/040/054 B109/B102

Relativistic corrections to the ...

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

July 12, 1961

Legend to the Table: (1) shape and parameter of V(r) (V_0 is given in Mev and a in 10^{-13} cm); (2) Gauss potential; (3) Yukawa potential.

W=0,222, M=0,08, B=0,222, H=-0,022[1] W=M=0,5, B=X=0 Форма и параметры V(r) (Vs в MeV, α в 10-чем) Δµ(He4) Δμ(He³) Гауссовский потенциал ② $V_0 = 51.9, a = 1.73 \ [0]$ $V_0 = 45, a = 1.94 \ [0]$ $V_0 = 68.8, a = 1.55 \ [0]$ -0,048 -0,032 -0,018 0,009 0,005 -0,005 Потенциал Юкава $V_0 = 68, a = 1,17$ [11] $V_0 = 46,48, a = 1,184$ [12] -0,086

Card 4/4

ENT(D)/ENA(h) L 13173-66 SOURCE CODE: UR/0357/65/002/003/0427/0432 ACC NR. AP6001147 AUTHOR: Zelenskaya, N. S.; Mayling, L.; Neudachin, V. G.; Smirnov, Yu. F. ORG: Nuclear Physics Institute, Moscow State University (Institut yaderney fiziki moskovskogo gosudarstvennogo universiteta) TITLE: Selection rules for nuclear reactions involving nucleon associations in the SU(3) scheme SOURCE: Yadornaya fizika, v. 2, no. 3, 1006, 427-432 TOPIC TAGS: nuclear reaction, nucleon interaction, selection rule, quantum number, radioactive decay scheme, alpha particle, alpha decay ABSTRACT. The authors examine selection rules according to approximate models of quantum numbers in the SU(3) scheme. Selection rules are formulated for nuclear reactions involving associations according to quantum numbers in the SU(3) scheme, widely used in light nuclei spectroscopy. It is shown that these selection rules in some cases lead to very rigid restrictions, which makes it easy to check them experimentally. For example, the reaction of quasi-elastic knock-out of an Alpha-particle from the nucleus O^{16} by a fast particle a: O^{16} (a, a α)C*, accompanied by α -decay of $C^{13} * \rightarrow 3\alpha$, is possible only through the ~ 12 -MeV level | 1s | 1p | [444] 4 | > of the nucleus C^{13} . Furthermore, in the stripping reactions O^{16} (Li d)Ne | the only levels of the configuration (1d-2s) | which can be excited are those of the lowest rotational series O^{+} , O^{+} , ..., based on the ground state of Ne

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<u>-41296-66 EWT(m)/EWP(t)/ETJ IJF(c) JD/JG</u> SOURCE CODE: UR/0048/66/030/002/0278/0284 AUTHOR: Zelenskaya, N.S.; Smirnov, Yu.F. ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M. V. Lomonosov (Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta) TITLE: On taking into account spin-dependent effects in quasi-elastic knockout reactions /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 278-284 TOPIC TAGS: nuclear reaction, nuclear spin, spin orbit coupling, knowlout reaction, the spin dependent forces, ABSTRACT: The impulse approximation calculations of V.V. Balashov, A.N. Boyarkina, and I.Rotter (Nucl. Phys., 59, 417 (1964)) and P.Beregi, N.S.Zelenskaya, V.G. Noudachin, and Yu.F.Smirnov (Nucl. Phys., 66, 513 (1965)) of the cross section of the quasi-elastic knockout reaction (a,ax) have been generalized to take into account the spin-dependent terms in the interaction between the incident particle a and the knocked out particle or cluster X. The tensor forces between a and X are neglected, but the central forces, the spin-orbital coupling, and the spin-spin Card 1/2

ne cross searticle a introduce a searticle a introduce a seartice and interest and	are taken is s 1/2, an the scatt on the rec s 0 or 1/2 is rigorous action, s formulas	simplified f d expression ered particled in nucleus the correct asly zero. (showed that to derived in	for the case gives a region of the case of	spin-dependent ase in which wen for the colarized. Which the cross sections for specific corrections to the colarized corrections to the colarized	ross section to the cluster en the spir ion (with the cases, o the cross above without the of the case	n and for X (in the h of the kethe tensor in partices section but taking	the polimpulse nocked of forces ular for are smales of the constant of the con	out r the	
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ACC NRI AP6019620 (A,N) SOURCE CODE: UR/0048/66/030/002/0285/0291 AUTHOR: Zelenskaye, N.S.; Smirnov, Yu.F. ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M.V.Lomonosov (Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta) TITLE: Energy spectra of the final nuclei in (p,2p) reactions on 1d-2s shell nuclei /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, hold at Minsk, 25 January to 2 February 1965/ SOURCE: AN SSSR. Izvostiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 285-291 TOPIC TAGS: nuclear reaction, knockout reaction, Coriolis force, nuclear shell model, deformed nucleus, magnesium, aluminum, silicon, phosphorus ABSTRACT: The authors have extended their earlier unified model calculations of quasi-elastic proton and deuteron knockout reactions on deformed 1d-2s shell nuclei (Izv. AN SSSR, 2s, 1220 (1964)), to take into account the effect of rotational band mixing; i.e., of the coupling between the single-particle and rotational motions. The calculations were motivated by the appearance of the experimental excitation curves of G.Tibell, O.Sundberg, and R.U.Rendberg (Arkiy fys. 25, 443 (1964))	129,-00 cni(m)/Enr(t)/Eii IJP(c) JD/JH
ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M.V.Lomonosov (Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta) TITLE: Energy spectra of the final nuclei in (p,2p) reactions on 1d-2s shell nuclei /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/ SOURCE: AN SSSR, Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 285-291 TOPIC TAGS: nuclear reaction, knockout reaction, Coriolis force, nuclear shell model, deformed nucleus, magnesium, aluminum, silicon, phosphorus ABSTRACT: The authors have extended their earlier unified model calculations of quasi-elastic proton and deuteron knockout reactions on deformed 1d-2s shell nuclei (Izv. AN SSSR, 28, 1220 (1964)), to take into account the effect of rotational band mixing;1.e., of the coupling between the single-particle and rotational motions. The	NR: AP6019620 (A, N) SOURCE CODE: UR/0048/66/030/002/0285/0291
M.V.Lomonosov (Nauchno-issledovatel skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta) TITLE: Energy spectra of the final nuclei in (p,2p) reactions on ld-2s shell nuclei /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/ SOURCE: AN SSSR. Izvostiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 285-291 TOPIC TAGS: nuclear reaction, knockout reaction, Coriolis force, nuclear shell model, deformed nucleus, magnesium, aluminum, silicon, phosphorus ABSTRACT: The authors have extended their earlier unified model calculations of quasi-elastic proton and deuteron knockout reactions on deformed ld-2s shell nuclei (Izv. AN SSSR, 28, 1220 (1964)), to take into account the effect of rotational band mixing; i.e., of the coupling between the single-particle and rotational motions. The	R: Zelenskayz, N.S.; Smirnov, Yu.F.
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ABSTRACT: The authors have extended their earlier unified model calculations of quasi-elastic proton and deuteron knockout reactions on deformed 1d-2s shell nuclei (Izv. AN SSSR, 28, 1220 (1964)), to take into account the effect of rotational band mixing, i.e., of the coupling between the single-particle and rotational motions. The	E: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 285-291
(Izv. AN SSSR, 28, 1220 (1964)), to take into account the effect of rotational band mixing i.e., of the coupling between the single-particle and rotational motions. The	TAGS: nuclear reaction, knockout reaction, Coriolis force, nuclear shell model, med nucleus, magnesium, aluminum, silicon, phosphorus
calculations in such a way as to suggest that rotational band mixing might be signi-	AN SSSR, 28, 1220 (1964)), to take into account the effect of rotational band site., of the coupling between the single-particle and rotational motions. The lations were motivated by the appearance of the experimental excitation curves sibell, 0. Sundberg, and R.U. Rendberg (Arkiv fys., 25, 443 (1964)) for the (p.2p) lations on Mg ²⁴ , Al ²⁷ , Si ²⁸ , and P, which disagreed with the authors earlier lations in such a way as to suggest that rotational band mixing might be signi-
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ficant. The calcul- No. 15 (1956)) of the nuclear wave fur factors in the reduct lations of the exci- p31. Rather good a each of the reaction in its pure form as shell nuclei, but to of slightly deformed not only shifts the tation in (p,2p) re ment with the expensachieved. It is so lightest ld-2s shell levels of those nucleis.	ations of A.K. Kerman (he effect of Coriolis notions are employed to ced widths, and these tation functions for togreement with experiments are discussed. It innot account for the innot account for the interpretation band mixtued 1d-2s shell nuclei, e nuclear levels but all eactions. By taking reminental data of Tibell eggested that experimental in nuclei (not heavier clei on the basis of the would be desirable. ble remarks. Orig. ar	co calculate the change are employed to correct the (p,2p) reactions of the is concluded that the features of (p,2p) reading must be taken into rotation band mixing less alters the probability of the concluders of the probability of the concluders of the probability of the concluders of the (p,2p) than Ne) as well as the SU ₃ scheme of J.P.I. The authors thank V.C. thas: 4 formulas ar	os in the spectro ot the earlier can Mg ²⁴ , Al ²⁷ , Si ² poouliar features e strong coupling ctions on deformed account. In the due to Coriolis in the littles for their ato account, good the corrections on the san analysis of celliott (Proc.Roy.G.Neudachin for dual of figures.	scopic lcu- 8, and of schome dd ld-28 corces exci- agree- an be ne the .Soc.,A, is-	
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L 3531-66 EPA(s)-2/EWT(m)/EWP(1)/EPF(n)-2/EWP(t)/EMP(b) ACCESSION NR: AP5015454 UR/0166/65/000/003/0038/0044 AUTHORS: Yagudayev, A. M.; Zelenskaya, N. V.; Khalmuradov TITLE: Spatial distribution of atomic fluxes when metals are evaporated by the spark-arc method SOURCE: AN UZSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 3, 1965, 38-44 TOPIC TAGS: metal coating, metal vapor deposition, metal film The spark-arc method for the evaporation of metals in vacuum was described by the authors earlier (DAN UzSSR, 1964, no. 12). The present study was undertaken to determine the distribution of the metal produced by a single evaporation source, so as to permit an ultimate arrangement of several sources in such a way that a thin film of uniform thickness is produced. The experimental study consisted of locating flat glass plates at various distances from the evaporation center and determining the thickness distribution of the deposited metal air by measuring its bransparency. The experimental Card 1/2

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ACCESSION NR: AP5015454

setup and details of the installation and of the test measurements are briefly described. Formulas are derived for the determination of the total mass of metal deposited on the substrate and its distribution. Orig. art. has: 4 figures and 15 formulas

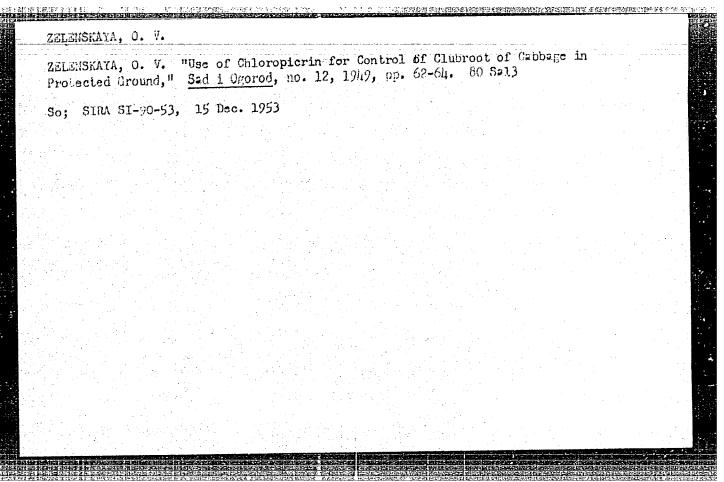
ASSOCIATION: Fiziko-tekhnicheskiy institut AN UZSSR (Physicotechnical Institute, AN UZSSR) 44 55

SUBMITTED: 070ct64 ENCL: 00 SUB CODE: IE

NR REF SOV: 003 OTHER: 004

Card 2/2

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1. Fiziko-tekhnicheskiy institut AN UzSSR. October 7, 1964.	Submit	ted	1/611		
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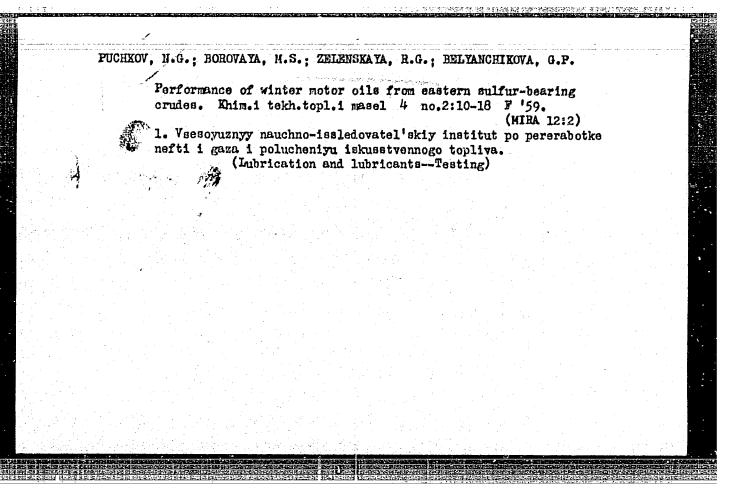
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		Knock testing o	of automobile enginutomobiles Engin	nes. Trudy lab	.dvig. no.1:61-	37 9)
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April 1						

PUCHKOV, N.G.; BOROVAYA, M.S.; ZELEHSKAYA, R.G.

Operating properties of automobile motor cils from eastern sulfurbearing crudes. Khim. 1 tekh.topl. i masel. 3 no.8:1-9 Ag '58.

(HIRA 11:9)

(Lubrication and lubricants)



SOV/65-58-8-1/14 AUTHORS: Puchkov, N. G; Borovaya, M. S. and Zelenskaya, R. G.

Useful Properties of Tubricating Oils for Cars from TITLE:

Eastern Sulphur Petroleums. (Ekspluatatsionnyye svoystva avtolov iz vostochnykh sernistykh neftey).

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.8. PERIODICAL:

pp. 1 - 9. (USSR).

During tests by the Novokuybyshevsk Petroleum Refinery ABSTRACT:

(Novokuybyshevskiyneftepererabatyvayushohiy zavod) carried out by TsIATIM, VNIITneft, NAMI and VNII NP it was found that the properties of oils prepared accord-

ing to Standard GOST 8581-57 are unsatisfactory. Detailed investigations were, therefore, carried out on the chemical composition and physico-chemical properties of these oils. From characteristics of these samples (Table 1), it can be seen that oils from sulphur petroleums differ from Baku petroleums by their low magnitudes of density and

low refraction coefficients, but they have better viscositytemperature properties, show low corrosion and a high tendency to lacquer formation. Data on the effect of the addition of various additives on the properties of lubricating oils NK NPZ was evaluated by laboratory

0ard 1/3 methods (Table 2) in a Pinkevich apparatus. The smallest

Useful Properties of Lubricating Oils for Cars from Eastern Sulphur Petroleums.

anti-corrosive action was shown by the additive Paranoks and Tsiatim-339. The additive AzNII-4 and Santolube proved unsatisfactory. The additive DF-1 Parancks and Santolube was most effective in reducing lacquer formation. Analogous data were obtained when determining the detersive properties according to PZV (GOST 5726-53). The oil NK-NPZ could not be tested on the engine GAZ-51 because of insufficient purification. Table 3: results of tests of oils on the engine GAZ-51 (time of test = 100 hours). As these laboratory analyses proved to be insufficient, pure and used oils were divided into hydrocarbon fractions (Tables 4, 5 and 6) and tested (Refs.3, 4 and 5). A comparative evaluation of the chemical composition of these oils showed that after 150 hours of work the chemical group composition of the oils changed only to a slight extent. However, the viscosity of the aromatic fractions of the oils from Baku petroleum altered considerably. Some additional characteristics of the changes of the oils after 100 hours of work were obtained during the analysis of tars (Table 7) and during analysis of deposits on filters (Table 8). The lower degree of carbonisation

Card 2/3

SOV/65-58-9-1/14 Useful Properties of Lubricating Oils for Cars from Eastern Sulphur Petroleums.

of oxidation products was less dependent on the chemical composition of the oils than on the presence of sulphur in the oil NK-NPZ. Further tests were carried out on the oxidation of five samples of oils under laboratory conditions (in the apparatus DK-2 NAMI) at 1800, 2000 and 220°C during fifty hours. The viscosity at 50°C was determined every ten hours, as well as the quantity of insoluble deposits, tar and the amount of formed asphaltenes and hydroxy acids (Figs.1 - 4). Table 9: data on the content of sulphur in the oils. At high temperatures (220°C and higher) the stability of Baku and Eastern oils equalises. Oxidation products of Eastern oils are less pure and contain a larger amount of tars. asphaltenes, hydroxy acids, but no carbenes or carboids. There are 9 Tables, 4 Figures and 5 References: 4 Soviet and 1 English.

1. Lubricating oils-Test results 2. Lubricant additives-Effectiveness 3. Sulfur-Chemical effects

Oard 3/3

ZELENSKAYA K.G

32531 S/065/62/000/001/002/002 E194/E135

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AUTHORS :

Puchkov, N.G., Borovaya, M.S., Belyanchikov, G.P.,

Zelenskaya, R.G., and Severov, Ye.G.

TITLE: Service performance of basic lubricants refined in

different ways

PERHODICAL: Khimiya i tekhnologiya topliv i masel, no.1, 1962,

53-59

TEXT: Engine tests at the VNII NP showed that engine oils derived from Eastern high sulphur crudes caused ring-sticking. In this respect alone they were worse than Baku oils, being equal or better in all other respects. Accordingly, a study was made of hydrocarbon group and ring structure and other properties of various lubricants before and after engine testing. Eastern and Baku oils were found to be generally very similar but differ in the content of sulphur compound and in hydrocarbon structure. Because of their constitution Eastern oils oxidise to form oxyacids and asphaltenes which promote ring sticking. Even though the oil-resin contents of the initial base oils were Card 1/3

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Service performance of basic

similar, the oils from Eastern crudes produced more lacquer in the engine and in a laboratory oxidation test than did Baku oils. Oils deeply refined by solvent, acid or adsorbents were more stable, but whereas the Baku oils so refined deceriorated at a steady rate the Eastern oils displayed an induction period, being initially the more stable, but later oxidising more rapidly. Adsorption refining was particularly effective in improving the stability of the oils and reducing ring sticking with oils of Eastern crudes, giving satisfactory performance even without the use of additives. Work is in progress on hydrofined Eastern oils and preliminary indications are that this treatment gives somewhat higher VI than solvent treatment. However, hydrofined Eastern oils have inferior additive susceptibility, particularly to sulphonates, though their properties were much improved by additive BHNN HM-360 (VNII NP-360). Hydrofined oils with this additive behaved well in 100 and 600 hour gasoline engine tests and in 800 hour diesel engine tests. A simple comparison of certain physical properties of hydrofined Eastern oil with those of Essolube, and Shell Rimula oils, indicates that the Soviet Card 2/3

CIA-RDP86-00513R001964230007-9" APPROVED FOR RELEASE: 03/15/2001

Service performance of basic ... \$\frac{32531}{5/065/62/000/001/002/002}\$

base oils can be as good as foreign ones. The need to match additive to base oil is emphasised. There are 5 figures, 9 tables and 4 Soviet-bloc references.

ASSOCIATION: VNII NP

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L 41031-56 EWT(M)/1 DJ	
ACC NR: AP6018624 (A) SOURCE CODE: UR/0065/66/000/006/0048/0052	
AUTHOR: Grigor'yev, M. A.; Pimenov, A. M.; Zelenskaya, R. G.	
CO CONTRACTOR CONTRACT	1.5
ORG: NAMI, VNII NP	
TITLE: Evaluation of service qualities of automotive oils by engine tests	
SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 48-52	
TOPIC TAGS: lubricant, lubricating oil	
ABSTRACT: In order to provide appropriate equipment for the testing of automotive motor oils in the Soviet Union the NAMI-1 test unit was developed and used at NAMI for comparative engine tests, evaluating the test results by the UIM-6 method, US method 344-T (USA Standard No. 691, March 1959), and also by the PZV method. The unit includes a single cylinder engine, corresponding to a section of engine ZIL-130. The unit permits rating of piston deposits, varnish, piston ring coking, wear of the unit permits rating of piston deposits, and the oxidizability of oils and cylinder-piston section, low-temperature deposits, and the oxidizability of oils and bearing corrosion. Lubricants type A, B, and C were rated, represented by oil AC-9,5 with admixtures of 0.7, 0.7, and 0.25% additive Santolub 493, and of 0.7, 1.5, and 4% additive Monto 613, respectively. Standard gasoline A-76 was used in 100-hr runs. Method UIM-6 gave higher ratings for ring mobility than method 344-T, and the latter permitted a differentiation by points of piston grooves and seals, although the final results for both methods were similar. The types of deposit, however, may differently UDC: 665.521.5	
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Method 344	gine perio. 4-T is emp.	rmance and loyed by va	rious o	organizat	ions in th	e Soviet	Union	and is	widely	used	
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research :	is hardly	expedient.	Orig.	art. nas	: I capte	and I	TBUL				4.5
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78231 5.3300 sov/80-33-3-32/47

Garber, Yu. N., Zelenevskaya, S. I., Rabukhina, G. G. AUTHORS:

Concerning the Azeotropic Rectification for the TITLE: Separation of Isomers With Close Boiling Points

(System m-Xylene-p-Xylene)

Zhurnal prikladnov khimii, 1960, Vol 33, Nr 3, PERIODICAL:

pp 694-700 (USSR)

The investigation of the phase equilibrium as well as ABSTRACT:

the rectification of paraldehyde-m-xylene and paraldehyde-

-p-xylene systems showed that paraldehyde does not form azeotropes with either of the xylene isomers, and therefore cannot be used for the separation of the xylene isomers mixture. Similar study of 1,2-ethyl dibromide mixtures with xylene isomers showed that the former gives an azeotrope with p-xylene only. The azeotrope contains 92.5-95.0 molar % of 1,2-ethyl

dibromide and its boiling point is 131.0° C. However, due to the low p-xylene content in the mixture of the

Card 1/2

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Concerning the Azeotropic Rectification for the Separation of Isomers With Close Boiling Points (Systems m-Xylene-p-Xylene)

78231 SOV/80-33-3-32/47

isomers, 1,2-ethyl dibromide cannot be used as an

azeotropic agent for their separation. There are azeotropic agent for their separation. There are 4 tables; 6 figures; and 8 references, 2 U.S., 1 Belgian, and 5 Soviet. The U.S. references are: D. F. Othmer, and 5 Eng. Chem., Analyt. Ed., 4, 232 (1932); Ewell Ind. Eng. Chem., Petroleum Eng., 15, 255, 259, 319 (1944).

ASSOCIATION:

Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy

metallurgicheskiy institut)

SUBMITTED:

November 15, 1959

Card 2/2

CIA-RDP86-00513R001964230007-9" APPROVED FOR RELEASE: 03/15/2001

ZHDANOV, Yu.A.; DOROFEYENKO, G.N.; ZELENSKAYA, S.V.

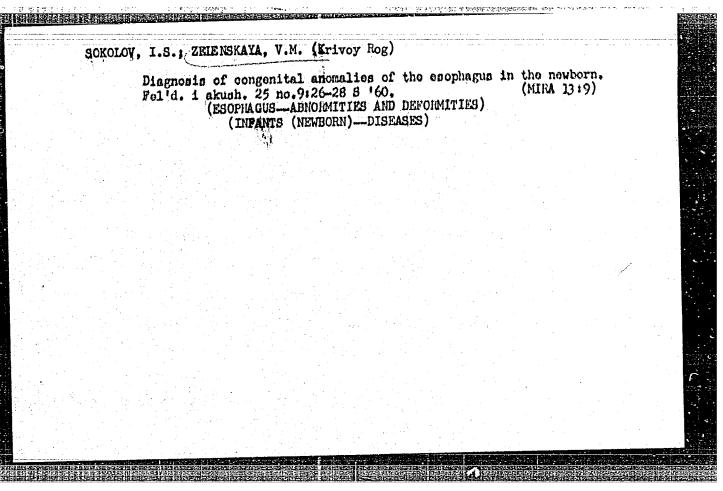
Thin-layer chromatography of carbohydrates on gypsum. Dokl. AN SSSR (MIRA 16:7)

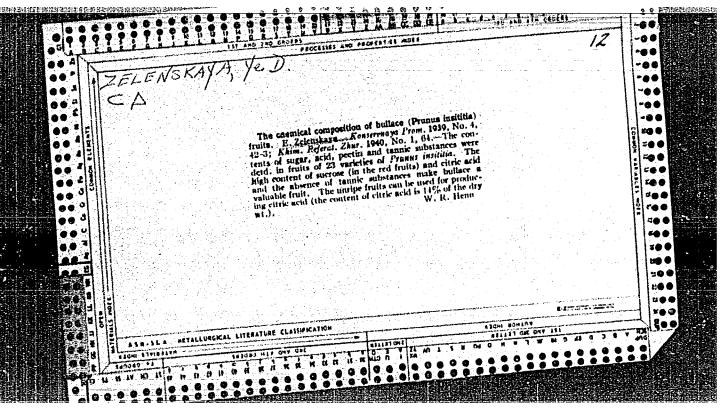
1, Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno akademikom M.M.Shenyakinym. (Carbohydrates) (Chromatographic analysis)

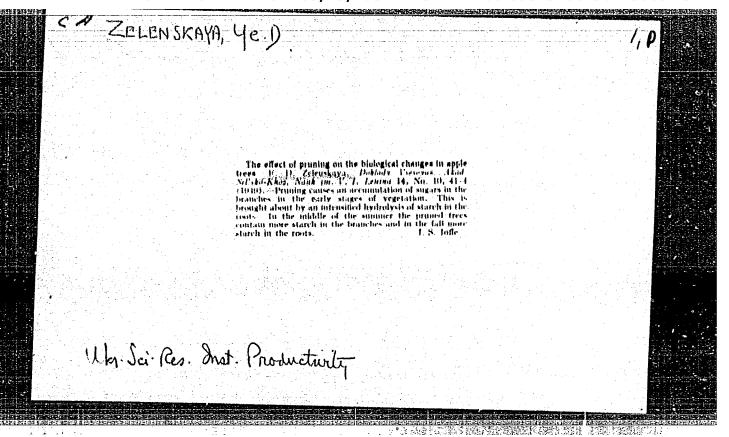
ZELENSKAYA, T.M. [Zelens'ka, T.M.]

Morphological changes in the ovaries of white rats under the effect of large doses of antiovarian cytotoxic serum. Fiziol. zhur. [Ukr.] 11 no.6:816-819 N-D '65. (MIRA 19:1)

l. Laboratoriya izucheniya biologicheski aktivnykh veshchestv Instituta fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.







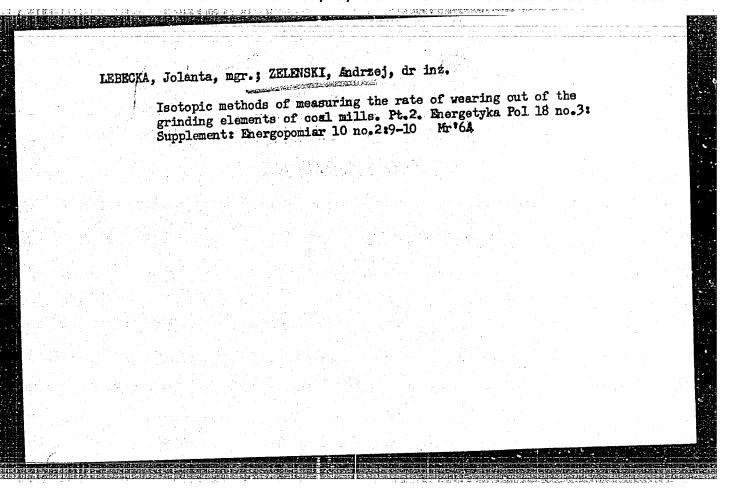
1. YE. D. ZELENSKAYA

《夏春**秋**日日》,《日日》(1985年),[18] [18] 日本代表的。[19]

- 2. USSR (600)
- 4. Apple
- 7. Seasonal dynamics of ash constituents and nitrogen in various organs of young apple trees. YE. D. Zelenskaya. Dokl. Ak. sel(khoz. 18 no. 11. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

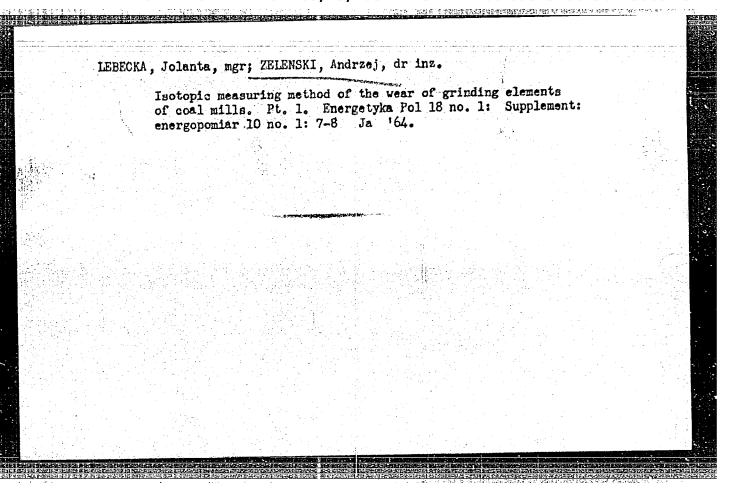


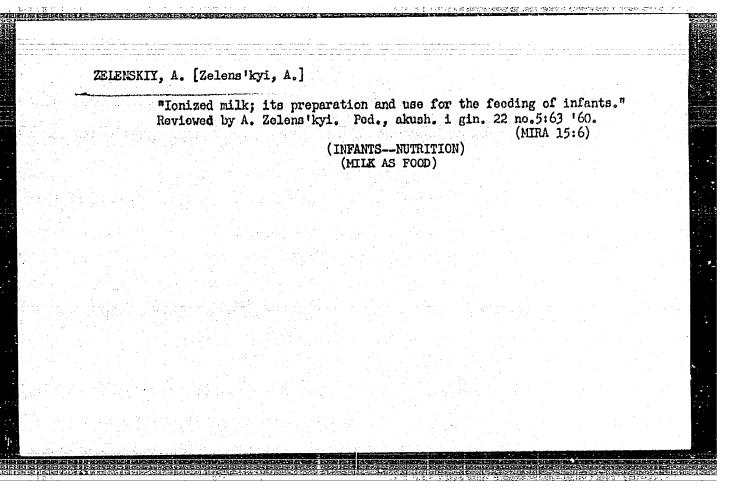


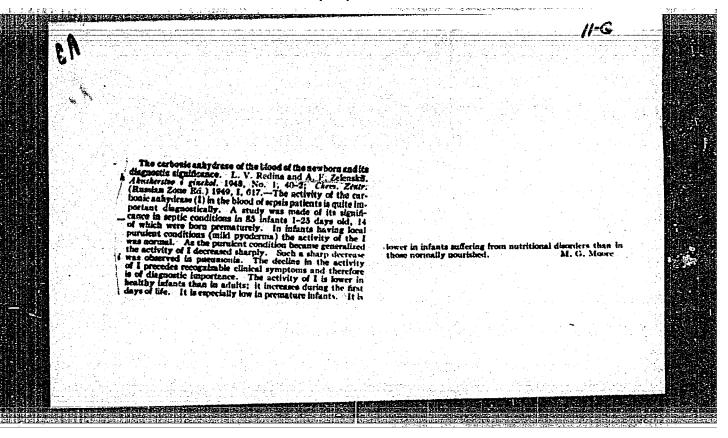
ZEIENSKI, Andrzej, dr inz.; IEBECKA, Jolanta, mgr

Isotopic method of measuring the degree of wear of the lining of ball and ring pulverizing mills. Energetyka Pol 17 no. 7: Supplement: Energopomiar 9 no. 4:21-26 Jl '63.

1. Dział Cieplny, Zakład Badan i Pomiarow, Instytut Energetyki, Warszawa.







ZELENSKIY, A.F.

Zelenskiy, A. F. "Materials on the conditions of blood circulation in newborn infants," Frudy VI Vsecoyuz. styczda det. vrachey, posvyzanch. panyati prof. Filatova, Moscow, 1946, p. 423-26

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

ZEIENSKIY, A.F.

Functional peculiarities of the cardiovascular system in evaluation of general development of newborn. Pediatriia, Hoskva No.6:13-19 Nov-Dec (CIML 21:4) 51.

1. Of the Division for New-Born Infants (Head-A.F. Zelenskiy), Scientific-Research Institute of Obstetrics and Gynecology, Ministry of Public Health USSR (Director-L.G. Stepanov; Scientific Supervisor-Prof. K.N. Zhmakin).

ZELENSKIY, A. F., PANPULOV, K. S.

Blood - Pressure

Method of measuring arterial pressure of children. Pediatriia no. 2, March-April 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

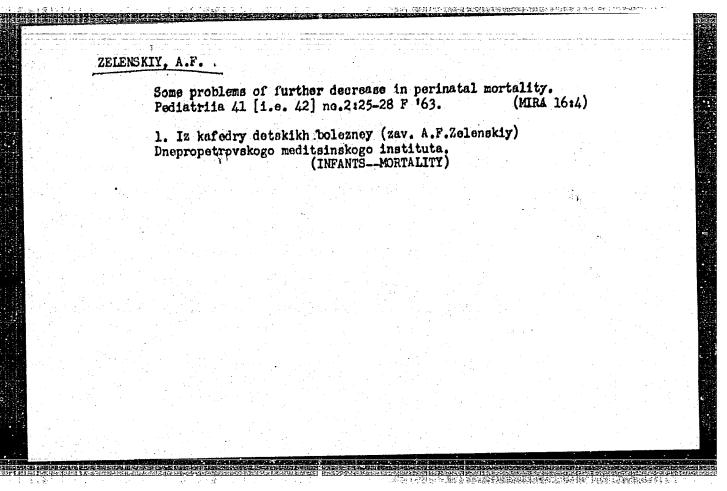
Influence of S.P.Botkin on the development of Soviet pediatrics; on the 125th anniversary of his birth [with susmary in Malgish].

Pediatria 36 no.1180-85 Ja '58. (HIRA 11:2)

1. Is kafedry detskikh boleznoy (zav. A.F.Zelenskiy) Dneoropetrovskogo meditsinskogo institute (dir. - prof. D.P.Chukhriyenko)

(BOTKIN, SERGEI PETROVICH, 1832-1889)

(PEDIATRICS)



ZELENS	KIY, A.F., p	rof. (Dnepropeta	ovsk)		
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